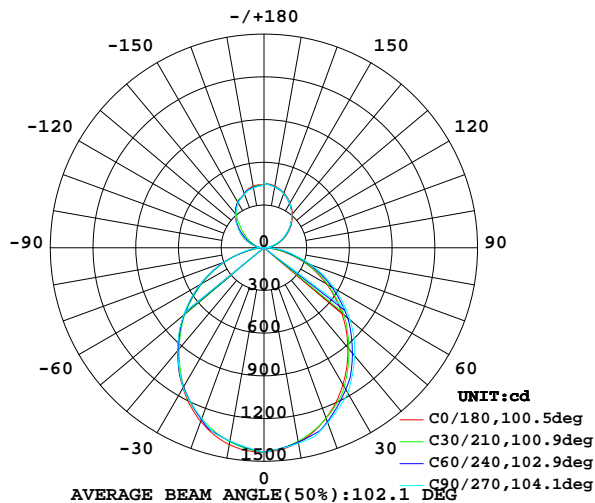


LUMINAIRE PHOTOMETRIC TEST REPORT

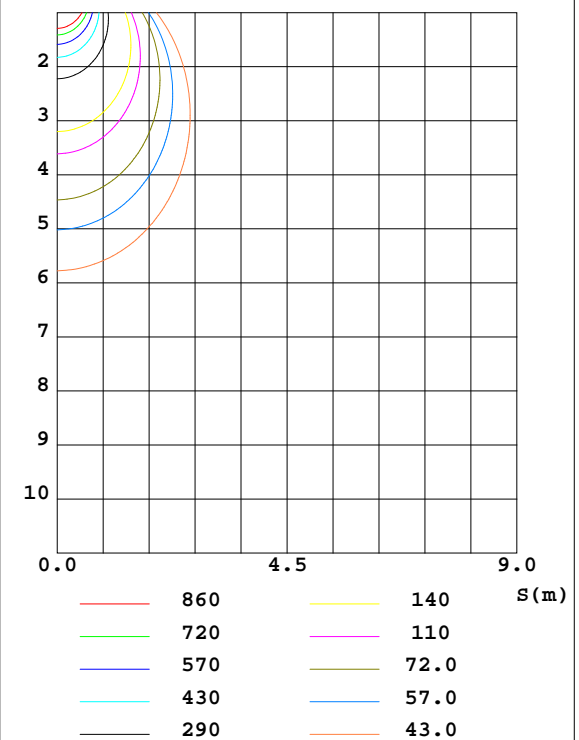
Test:U:240.7V I:0.2000A P:46.80W PF:0.9710 Lamp Flux:4785.9x1 lm		
NAME: DB77A-1200-45W-DO	TYPE:45W	WEIGHT:
DIM.:	SPEC.:4000K	SERIAL No.:
MFR.: EVERFINE	SUR.:0.055X1.199	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 102.26 lm/W			
MODEL	DB77A-1200-45W-DO	I _{max} (cd)	1435	S/MH(C0/180)	1.16
NOMINAL POWER(W)	45	LOR(%)	100.0	S/MH(C90/270)	1.22
RATED VOLTAGE(V)	240	TOTAL FLUX(lm)	4785.9	η UP,DN(C0-180)	12.6,37.6
NOMINAL FLUX(lm)	4785.9	CIE CLASS	SEMI-D.	η UP,DN(C180-360)	12.6,37.2
LAMPS INSIDE	1	η up(%)	25.2	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	240.8	η down(%)	74.8	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2020-07-20

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:10.237m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum, lamp
5	1421	1413	1415	1418	1429	1412	1407	1407	0- 5	34.00	34.00	0.71,0.71
10	1388	1382	1394	1392	1404	1380	1378	1371	5- 10	100.1	134.1	2.8,2.8
15	1340	1343	1373	1357	1359	1339	1349	1327	10- 15	161.9	296.0	6.18,6.18
20	1273	1297	1308	1314	1298	1290	1278	1277	15- 20	217.0	513.0	10.7,10.7
25	1196	1218	1243	1236	1225	1210	1206	1195	20- 25	262.0	775.0	16.2,16.2
30	1109	1131	1178	1145	1139	1122	1135	1106	25- 30	296.7	1072	22.4,22.4
35	1015	1044	1084	1045	1044	1033	1038	1016	30- 35	319.9	1392	29.1,29.1
40	916.2	953.0	989.6	936.7	943.5	939.7	941.4	924.3	35- 40	330.1	1722	36,36
45	815.2	846.6	895.5	794.6	839.6	829.6	844.5	817.9	40- 45	328.2	2050	42.8,42.8
50	712.6	743.2	788.1	650.6	734.4	722.6	736.4	714.8	45- 50	314.7	2364	49.4,49.4
55	610.3	642.9	680.7	522.5	627.0	618.3	628.3	614.2	50- 55	290.4	2655	55.5,55.5
60	506.4	531.8	573.3	418.3	519.1	506.6	520.2	505.2	55- 60	258.1	2913	60.9,60.9
65	402.9	424.7	462.6	322.6	410.2	398.7	410.6	399.7	60- 65	219.1	3132	65.4,65.4
70	299.9	320.7	351.9	236.6	302.8	294.1	301.0	298.3	65- 70	175.1	3307	69.1,69.1
75	202.4	219.3	241.3	159.7	199.3	192.0	191.4	199.4	70- 75	128.2	3435	71.8,71.8
80	113.5	126.8	162.8	91.61	99.29	100.0	129.1	109.8	75- 80	82.83	3518	73.5,73.5
85	42.56	65.59	84.33	47.49	22.88	51.49	66.70	56.66	80- 85	46.05	3564	74.5,74.5
90	6.884	5.850	5.857	4.838	3.195	4.388	4.339	4.591	85- 90	16.05	3580	74.8,74.8
95	40.04	28.08	25.74	25.80	28.12	23.49	30.90	30.20	90- 95	9.239	3590	75,75
100	62.64	50.27	45.62	46.70	57.42	42.75	57.47	55.94	95-100	22.13	3612	75.5,75.5
105	88.76	79.02	65.51	75.27	87.48	65.21	84.03	86.45	100-105	34.40	3646	76.2,76.2
110	119.1	110.0	100.9	106.0	117.4	89.71	117.0	118.9	105-110	48.47	3695	77.2,77.2
115	151.4	142.3	136.2	138.8	150.6	117.5	150.0	152.4	110-115	63.04	3758	78.5,78.5
120	184.3	175.8	171.6	173.4	182.7	148.0	182.9	186.9	115-120	76.65	3834	80.1,80.1
125	216.5	210.2	205.9	209.5	213.2	180.9	215.8	222.6	120-125	88.58	3923	82,82
130	249.9	241.4	240.2	241.8	243.0	218.9	248.7	253.9	125-130	98.30	4021	84,84
135	281.2	273.4	274.5	274.7	277.2	269.5	281.6	285.7	130-135	105.2	4126	86.2,86.2
140	311.2	305.7	303.9	308.1	311.7	300.2	309.4	317.9	135-140	108.6	4235	88.5,88.5
145	339.6	332.7	333.4	335.7	341.2	345.5	337.3	344.2	140-145	108.1	4343	90.7,90.7
150	366.3	358.7	362.9	361.9	365.5	364.1	365.1	369.4	145-150	103.7	4447	92.9,92.9
155	389.9	384.2	384.1	387.2	385.6	385.2	383.7	394.0	150-155	95.13	4542	94.9,94.9
160	411.1	407.4	405.3	410.4	404.7	402.9	402.3	414.7	155-160	83.10	4625	96.6,96.6
165	427.6	421.7	426.5	424.0	427.3	420.0	421.0	421.3	160-165	68.32	4693	98.1,98.1
170	441.0	434.1	435.2	435.9	440.3	433.0	427.3	427.2	165-170	50.77	4744	99.1,99.1
175	448.7	444.1	443.8	445.4	444.1	438.1	433.6	433.5	170-175	31.26	4775	99.8,99.8
180	452.5	452.5	452.5	452.5	440.0	440.0	440.0	440.0	175-180	10.59	4786	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

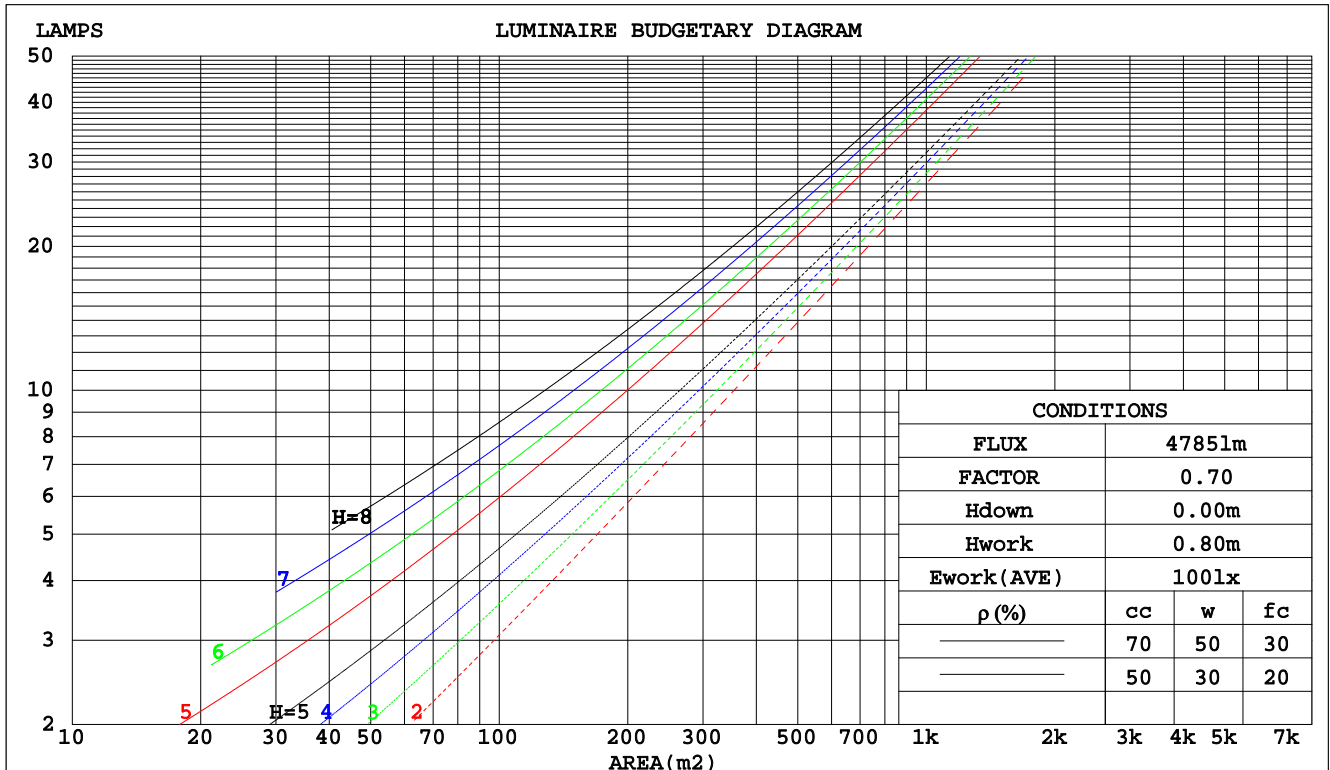
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2020-07-20

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:10.237m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:240.7V I:0.2000A P:46.80W PF:0.9710 Lamp Flux:4785.9x1 lm		
NAME: DB77A-1200-45W-DO	TYPE:45W	WEIGHT:
DIM.:	SPEC.:4000K	SERIAL No.:
MFR.: EVERFINE	SUR.:0.055X1.199	PROTECTION ANGLE:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.13	1.13	1.13	1.07	1.07	1.07	.97	.97	.97	.88	.88	.88	.79	.79	.79	.75
1.0	.99	.95	.91	.94	.91	.88	.86	.83	.80	.77	.75	.73	.70	.68	.67	.63
2.0	.87	.80	.75	.83	.77	.72	.75	.71	.67	.68	.65	.62	.62	.59	.57	.53
3.0	.76	.69	.63	.73	.66	.61	.66	.61	.56	.60	.56	.52	.55	.51	.48	.45
4.0	.68	.60	.53	.65	.57	.52	.59	.53	.48	.54	.49	.45	.49	.45	.42	.39
5.0	.61	.52	.46	.58	.50	.45	.53	.47	.42	.49	.43	.39	.44	.40	.37	.34
6.0	.55	.46	.40	.52	.45	.39	.48	.42	.37	.44	.39	.34	.40	.36	.32	.30
7.0	.49	.41	.35	.47	.40	.34	.44	.37	.32	.40	.35	.31	.37	.32	.29	.26
8.0	.45	.37	.32	.43	.36	.31	.40	.34	.29	.37	.31	.27	.34	.29	.26	.24
9.0	.41	.34	.28	.40	.33	.28	.37	.31	.26	.34	.29	.25	.31	.27	.23	.21
10.0	.38	.31	.26	.37	.30	.25	.34	.28	.24	.31	.26	.22	.29	.25	.21	.19



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2020-07-20

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:10.237m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:240.7V I:0.2000A P:46.80W PF:0.9710 Lamp Flux:4785.9x1 lm		
NAME: DB77A-1200-45W-DO	TYPE:45W	WEIGHT:
DIM.:	SPEC.:4000K	SERIAL No.:
MFR.: EVERFINE	SUR.:0.055X1.199	PROTECTION ANGLE:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.287	.163	.052	.272	.155	.049	.245	.141	.045	.220	.127	.041	.197	.114	.037	
2.0	.269	.148	.045	.256	.141	.043	.231	.129	.040	.209	.117	.037	.188	.106	.033	
3.0	.250	.133	.040	.238	.127	.038	.216	.117	.035	.195	.107	.033	.176	.097	.030	
4.0	.231	.120	.035	.221	.115	.034	.200	.106	.032	.181	.097	.029	.164	.089	.027	
5.0	.215	.109	.032	.205	.105	.031	.186	.097	.029	.169	.089	.026	.153	.082	.024	
6.0	.200	.100	.029	.191	.096	.028	.174	.089	.026	.158	.082	.024	.143	.075	.022	
7.0	.186	.092	.026	.178	.089	.025	.162	.082	.024	.148	.076	.022	.134	.070	.020	
8.0	.175	.085	.024	.167	.082	.023	.152	.076	.022	.139	.070	.020	.126	.065	.019	
9.0	.164	.079	.022	.157	.076	.021	.143	.071	.020	.131	.066	.019	.119	.060	.017	
10.0	.154	.074	.021	.148	.071	.020	.135	.066	.019	.124	.061	.017	.112	.057	.016	

pcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.382	.382	.382	.327	.327	.327	.223	.223	.223	.128	.128	.128	.041	.041	.041	
1.0	.372	.350	.330	.319	.300	.284	.218	.207	.196	.125	.120	.114	.040	.038	.037	
2.0	.364	.327	.296	.312	.281	.255	.214	.195	.178	.123	.113	.104	.040	.037	.034	
3.0	.356	.310	.273	.306	.267	.237	.210	.186	.166	.121	.109	.098	.039	.035	.032	
4.0	.349	.297	.258	.300	.257	.224	.206	.179	.158	.119	.105	.093	.038	.034	.031	
5.0	.342	.287	.247	.294	.249	.215	.202	.174	.152	.117	.102	.090	.038	.033	.030	
6.0	.336	.279	.239	.288	.242	.208	.199	.169	.147	.115	.100	.088	.037	.033	.029	
7.0	.329	.273	.233	.283	.237	.203	.196	.166	.144	.114	.098	.086	.037	.032	.028	
8.0	.323	.267	.229	.278	.232	.200	.193	.163	.142	.112	.096	.084	.036	.031	.028	
9.0	.318	.263	.226	.274	.228	.197	.190	.160	.140	.110	.095	.083	.036	.031	.028	
10.0	.312	.259	.223	.269	.225	.195	.187	.158	.138	.109	.093	.082	.035	.031	.027	

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2020-07-20

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
Humidity:65.0%
Test Distance:10.237m [K=1.0000]
Remarks:

Uncorrected UGR Table

Test:U:240.7V I:0.2000A P:46.80W PF:0.9710 Lamp Flux:4785.9x1 lm											
NAME: DB77A-1200-45W-DO					TYPE:45W			WEIGHT:			
DIM.:					SPEC.:4000K			SERIAL No.:			
MFR.: EVERFINE					SUR.:0.055x1.199			PROTECTION ANGLE:			
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3	
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3	
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Room dimensions		Viewed crosswise					Viewed endwise				
x = 2H y = 2H	20.9	22.1	21.5	22.7	23.3	21.5	22.7	22.1	23.3	23.9	
	3H	22.2	23.3	22.8	23.9	24.6	22.9	24.0	23.6	24.6	25.3
	4H	22.7	23.7	23.3	24.3	25.0	23.5	24.5	24.1	25.1	25.8
	6H	23.0	23.9	23.6	24.5	25.3	23.9	24.8	24.6	25.5	26.3
	8H	23.0	23.9	23.7	24.6	25.3	24.1	25.0	24.8	25.6	26.4
	12H	23.0	23.9	23.7	24.5	25.3	24.2	25.1	24.9	25.7	26.5
4H	2H	21.5	22.5	22.1	23.1	23.8	21.9	22.9	22.6	23.5	24.3
	3H	22.9	23.7	23.6	24.4	25.2	23.5	24.4	24.2	25.0	25.8
	4H	23.5	24.2	24.2	24.9	25.7	24.2	24.9	24.9	25.6	26.4
	6H	23.8	24.5	24.5	25.2	26.1	24.7	25.4	25.5	26.1	27.0
	8H	23.9	24.5	24.6	25.3	26.1	25.0	25.6	25.7	26.3	27.2
	12H	23.9	24.5	24.7	25.2	26.1	25.2	25.7	25.9	26.5	27.4
8H	4H	23.7	24.3	24.4	25.0	25.9	24.3	24.9	25.0	25.6	26.5
	6H	24.1	24.6	24.9	25.4	26.3	25.0	25.5	25.8	26.3	27.2
	8H	24.3	24.7	25.1	25.5	26.4	25.3	25.8	26.1	26.6	27.5
	12H	24.3	24.7	25.1	25.5	26.5	25.6	26.0	26.4	26.8	27.8
12H	4H	23.6	24.2	24.4	25.0	25.9	24.2	24.8	25.0	25.6	26.5
	6H	24.2	24.6	25.0	25.4	26.3	25.0	25.5	25.8	26.2	27.2
	8H	24.3	24.7	25.1	25.5	26.5	25.4	25.8	26.2	26.6	27.5
Variations with the observer position at spacings:											
S = 1.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.2					
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3					
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3					

CIE Pub.117 Corrected 4786 lm Total Lamp Luminous Flux.(8log(F/F0) = 5.4)

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2020-07-20

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
Humidity:65.0%
Test Distance:10.237m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:240.7V I:0.2000A P:46.80W PF:0.9710 Lamp Flux:4785.9x1 lm		
NAME: DB77A-1200-45W-DO	TYPE:45W	WEIGHT:
DIM.:	SPEC.:4000K	SERIAL No.:
MFR.: EVERFINE	SUR.:0.055X1.199	PROTECTION ANGLE:

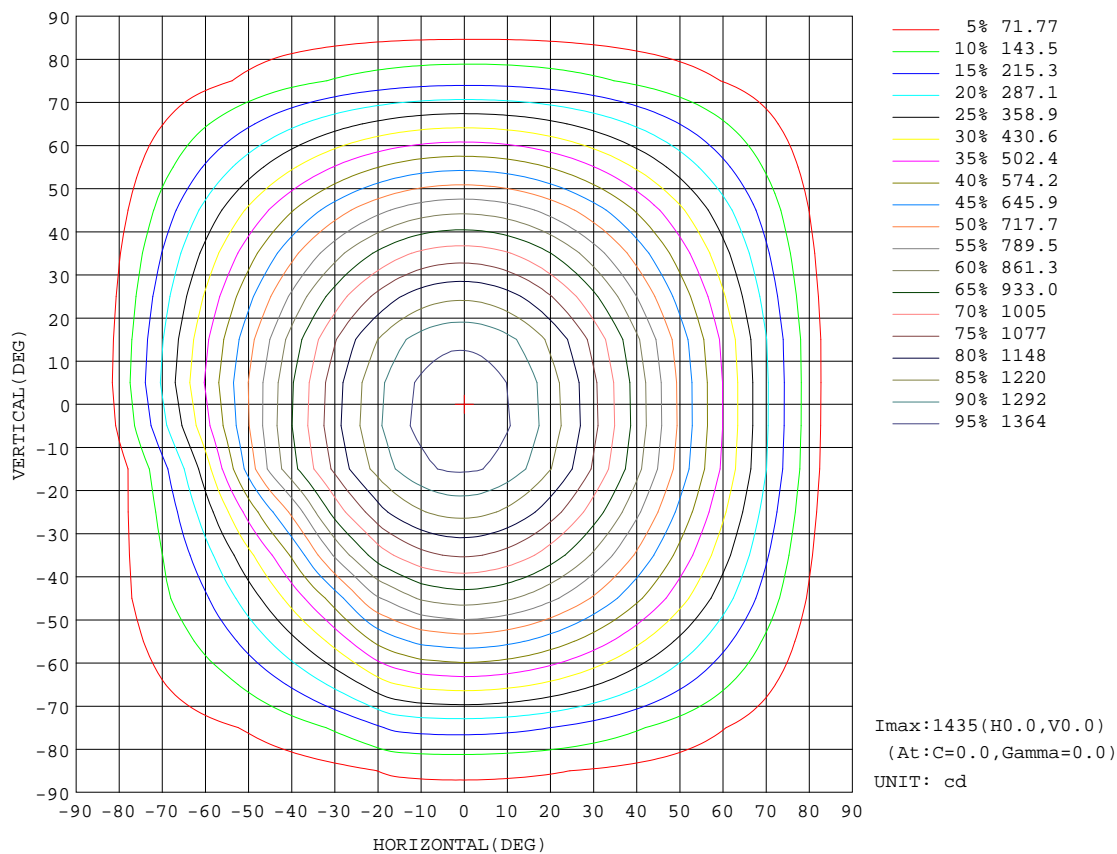
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	52	41	35	51	40	34	48	39	33	26
0.80	62	51	44	60	49	43	56	47	41	33
1.00	70	59	52	67	57	51	63	56	49	39
1.25	77	66	59	74	64	58	68	61	55	45
1.50	82	72	65	78	70	63	72	65	60	48
2.00	89	80	73	85	77	71	78	72	67	54
2.50	93	85	78	88	81	76	81	75	71	57
3.00	96	89	83	91	85	80	83	79	75	60
4.00	100	94	89	95	90	86	87	83	79	63
5.00	102	97	93	97	93	89	89	85	82	65
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004										
Suspended										
SHRNOM = 1.25										

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2020-07-20

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
Humidity:65.0%
Test Distance:10.237m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:240.7V I:0.2000A P:46.80W PF:0.9710 Lamp Flux:4785.9x1 lm		
NAME: DB77A-1200-45W-DO	TYPE:45W	WEIGHT:
DIM.:	SPEC.:4000K	SERIAL No.:
MFR.: EVERFINE	SUR.:0.055X1.199	PROTECTION ANGLE:



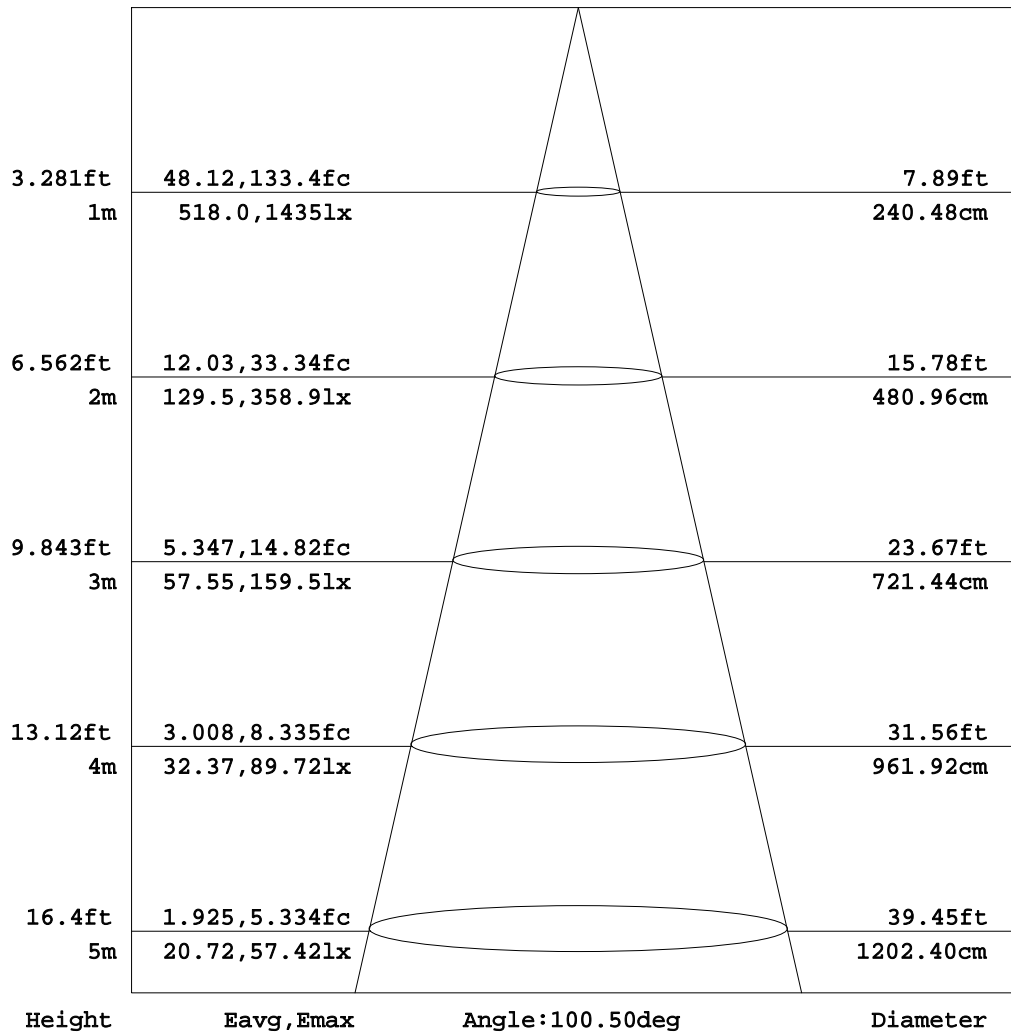
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2020-07-20

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
Humidity:65.0%
Test Distance:10.237m [K=1.0000]
Remarks:

AAI Figure

Test:U:240.7V I:0.2000A P:46.80W PF:0.9710 Lamp Flux:4785.9x1 lm		
NAME: DB77A-1200-45W-DO	TYPE:45W	WEIGHT:
DIM.:	SPEC.:4000K	SERIAL No.:
MFR.: EVERFINE	SUR.:0.055X1.199	PROTECTION ANGLE:

Flux out:2395 lm



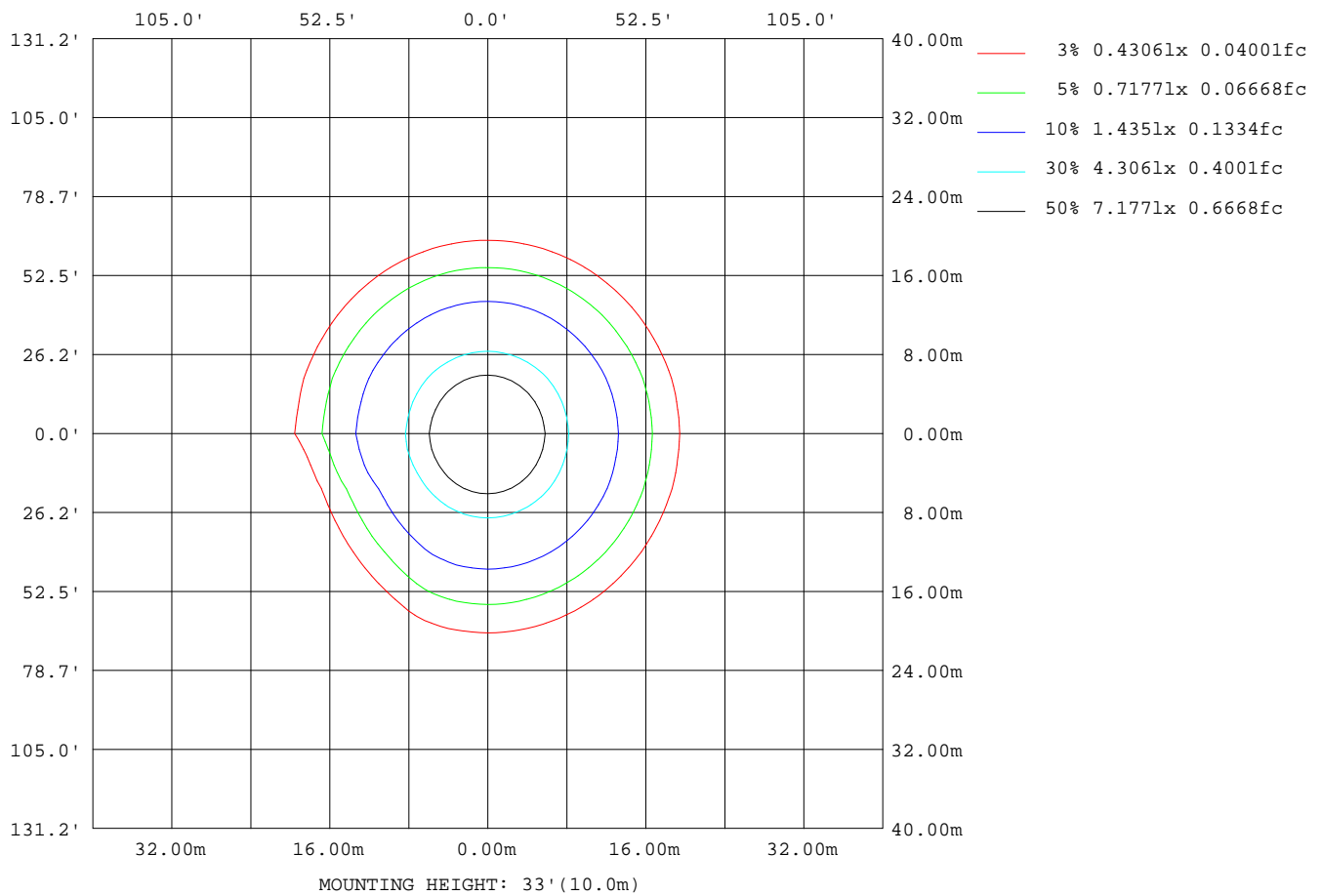
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2020-07-20

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.276
Humidity: 65.0%
Test Distance: 10.237m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

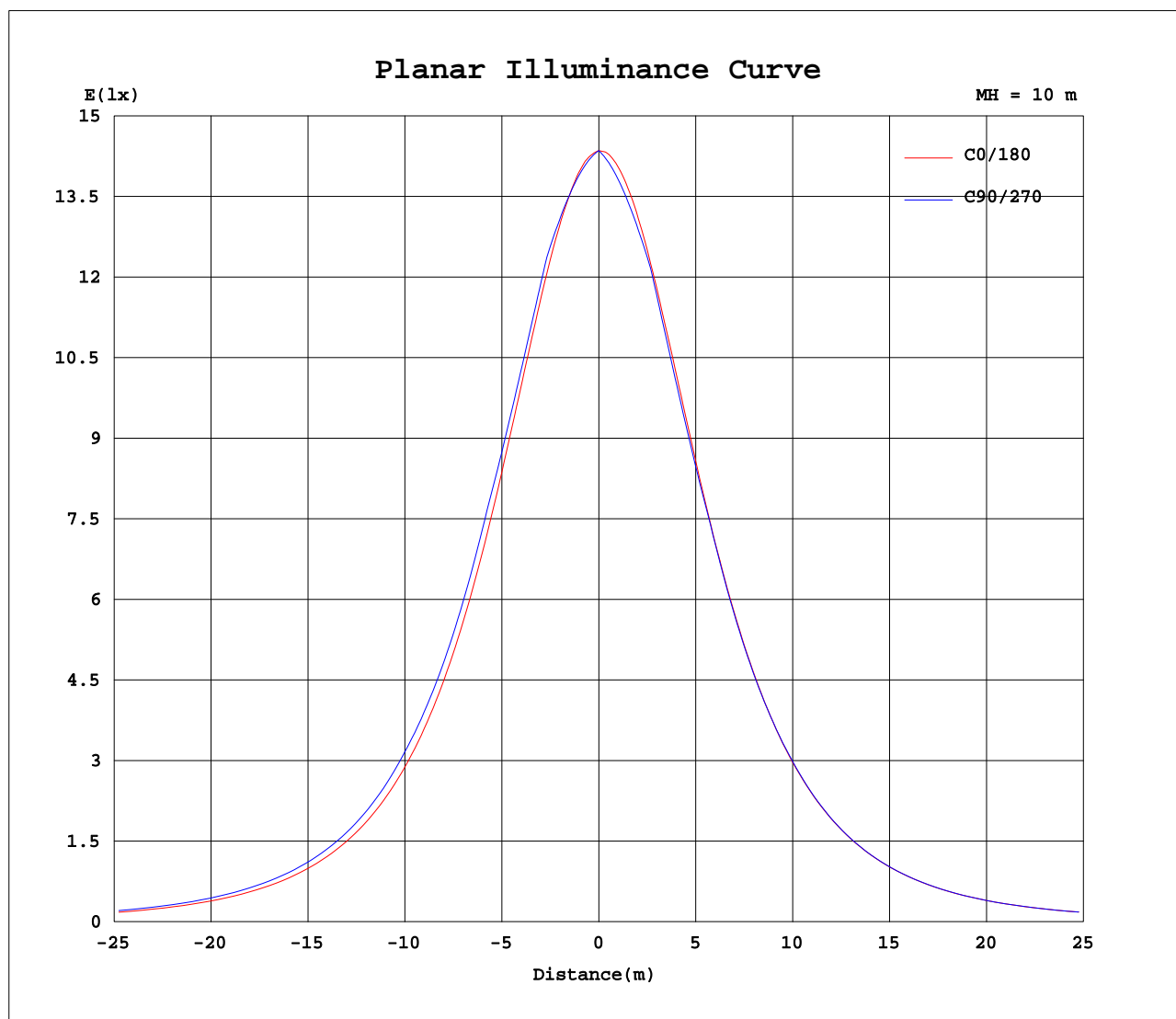
Test:U:240.7V I:0.2000A P:46.80W PF:0.9710 Lamp Flux:4785.9x1 lm		
NAME: DB77A-1200-45W-DO	TYPE:45W	WEIGHT:
DIM.:	SPEC.:4000K	SERIAL No.:
MFR.: EVERFINE	SUR.:0.055X1.199	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2020-07-20

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:10.237m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2020-07-20

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.276
Humidity: 65.0%
Test Distance: 10.237m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:240.7V I:0.2000A P:46.80W PF:0.9710 Lamp Flux:4785.9x1 lm																	
NAME: DB77A-1200-45W-DO									TYPE:45W						WEIGHT:		
DIM.:									SPEC.:4000K						SERIAL No.:		
MFR.: EVERFINE									SUR.:0.055X1.199						PROTECTION ANGLE:		

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	1435	1435	1435	1435	1435	1435	1435	1435	1435	1435	1435	1435	1435	1435	1435	1435	1435	1435	1435
5	1421	1419	1418	1417	1416	1415	1414	1414	1414	1413	1413	1413	1413	1413	1413	1413	1414	1414	1415
10	1388	1385	1383	1381	1380	1379	1379	1380	1381	1382	1383	1385	1386	1388	1390	1391	1392	1393	1394
15	1340	1335	1332	1331	1330	1331	1332	1335	1339	1343	1347	1352	1356	1360	1364	1368	1371	1372	1373
20	1273	1268	1265	1265	1266	1270	1275	1281	1289	1297	1300	1300	1301	1302	1302	1304	1306	1307	1308
25	1196	1191	1188	1189	1193	1199	1208	1219	1217	1218	1219	1222	1225	1229	1233	1236	1239	1242	1243
30	1109	1103	1102	1105	1111	1121	1127	1126	1128	1131	1137	1142	1149	1156	1162	1167	1172	1176	1178
35	1015	1009	1009	1014	1024	1029	1028	1031	1036	1044	1053	1062	1066	1069	1073	1076	1079	1082	1084
40	916	911	912	920	928	926	929	935	944	953	956	960	965	971	976	980	984	988	990
45	815	810	813	824	822	824	830	840	842	847	852	859	866	874	880	886	890	893	896
50	713	708	714	719	717	722	731	732	736	743	752	761	767	771	776	780	784	786	788
55	610	606	615	612	614	621	621	626	634	643	647	652	657	662	668	672	676	679	681
60	506	504	510	507	513	512	517	525	528	532	537	543	549	555	561	565	569	572	573
65	403	402	402	406	404	409	414	415	420	425	431	437	443	448	452	456	459	461	463
70	300	302	299	300	303	304	307	311	316	321	326	331	335	339	343	346	349	351	352
75	202	201	200	202	202	204	208	212	216	219	223	227	230	233	235	237	239	240	241
80	114	110	111	110	112	116	118	119	121	127	134	140	146	151	155	158	160	162	163
85	42.6	38.5	38.0	39.8	40.7	46.9	52.2	57.2	61.6	65.6	69.3	72.7	75.6	78.1	80.2	81.9	83.1	84.0	84.3
90	6.88	6.83	6.76	6.67	6.59	6.47	6.28	6.17	6.01	5.85	5.86	5.91	5.98	6.03	6.05	5.96	5.93	5.93	5.86
95	40.0	43.4	40.7	39.0	38.6	35.0	32.5	30.7	29.2	28.1	27.3	26.9	26.6	26.3	26.1	25.9	25.9	25.9	25.7
100	62.6	65.0	64.9	63.4	61.9	60.2	58.2	55.6	52.5	50.3	48.8	47.8	47.2	46.7	46.2	45.8	45.8	45.8	45.6
105	88.8	90.7	90.4	89.8	88.2	86.3	84.7	83.2	81.3	79.0	76.8	74.5	72.5	70.5	68.7	67.2	66.4	65.9	65.5
110	119	120	119	118	118	116	114	113	111	110	109	107	105	104	103	102	101	101	101
115	151	150	150	150	148	148	147	145	143	142	141	140	139	138	137	137	137	136	136
120	184	182	183	181	181	179	178	179	177	176	174	173	173	172	172	172	172	172	172
125	216	214	216	213	212	213	211	210	210	210	209	208	207	206	206	206	206	206	206
130	250	247	246	246	244	244	245	243	242	241	242	242	242	241	240	240	240	240	240
135	281	278	277	279	276	275	275	276	275	273	273	273	273	273	273	274	274	274	274
140	311	308	307	307	308	306	305	305	305	306	304	304	303	303	303	303	303	303	304
145	340	336	335	335	336	336	334	333	332	333	334	335	334	333	333	333	333	333	333
150	366	363	361	361	361	362	362	360	359	359	359	359	359	360	361	361	362	362	363
155	390	387	385	384	384	384	386	387	385	384	383	383	383	383	383	383	383	383	384
160	411	409	407	405	405	404	405	405	406	407	407	407	406	405	405	405	405	405	405
165	428	426	424	423	422	421	421	421	421	422	422	423	423	424	425	426	426	426	426
170	441	440	438	437	436	436	435	434	434	434	434	434	434	434	434	434	435	435	435
175	449	448	447	447	446	446	445	445	444	444	444	444	444	444	444	444	444	444	444
180	452	452	452	452	452	452	452	452	452	452	452	452	452	452	452	452	452	452	452

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2020-07-20

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
Humidity:65.0%
Test Distance:10.237m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:240.7V I:0.2000A P:46.80W PF:0.9710 Lamp Flux:4785.9x1 lm																		
NAME: DB77A-1200-45W-DO									TYPE:45W					WEIGHT:				
DIM.:									SPEC.:4000K					SERIAL No.:				
MFR.: EVERFINE									SUR.:0.055X1.199					PROTECTION ANGLE:				

Table--2

UNIT: cd

C(DEG) γ (DEG)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185
0	1435	1435	1435	1435	1435	1435	1435	1435	1435	1435	1435	1435	1435	1435	1435	1435	1435	1435	1435
5	1415	1415	1415	1416	1417	1417	1418	1418	1418	1419	1419	1420	1421	1422	1424	1425	1427	1429	1426
10	1394	1395	1395	1395	1394	1393	1393	1392	1392	1391	1391	1391	1392	1393	1395	1397	1400	1404	1399
15	1374	1374	1373	1370	1369	1366	1363	1359	1357	1354	1352	1350	1349	1349	1349	1351	1354	1359	1352
20	1309	1310	1310	1310	1311	1312	1314	1316	1314	1306	1301	1296	1291	1289	1288	1289	1293	1298	1290
25	1244	1243	1242	1241	1239	1238	1236	1236	1236	1238	1241	1232	1224	1218	1215	1215	1218	1225	1215
30	1178	1176	1173	1169	1165	1160	1156	1152	1145	1142	1144	1149	1148	1138	1131	1129	1132	1139	1128
35	1083	1082	1081	1078	1075	1074	1073	1055	1045	1039	1037	1039	1049	1051	1041	1036	1037	1044	1032
40	988	986	983	975	968	963	952	940	937	926	912	910	919	945	945	938	937	943	932
45	893	890	884	871	859	850	827	808	795	780	763	757	772	807	847	836	833	840	828
50	785	783	777	763	751	732	695	669	651	633	615	604	623	659	702	715	717	734	723
55	678	676	668	655	640	607	572	543	523	508	494	486	482	508	541	574	590	627	616
60	570	569	561	550	525	490	461	437	418	402	388	380	375	373	396	421	458	519	509
65	461	460	454	442	412	383	359	339	323	308	296	287	280	276	278	294	332	410	402
70	351	351	347	335	308	285	266	250	237	225	215	207	202	196	195	195	214	303	297
75	242	242	241	229	208	192	179	169	160	152	145	141	142	139	139	123	121	199	194
80	163	163	161	149	133	120	109	100	91.6	84.3	83.1	84.4	86.3	87.0	84.8	81.2	63.8	99.3	96.6
85	84.4	84.0	82.9	76.8	68.5	62.0	56.6	51.9	47.5	43.2	41.0	39.7	37.6	35.1	34.6	33.1	30.0	22.9	29.0
90	5.82	5.46	5.18	5.15	5.08	5.01	4.94	4.93	4.84	4.86	4.97	4.85	4.70	4.55	4.25	3.94	3.61	3.20	2.72
95	25.6	25.1	24.4	24.1	24.1	24.4	24.7	25.2	25.8	25.3	25.4	25.4	26.4	26.7	25.7	28.9	30.7	28.1	30.0
100	45.4	44.8	43.7	43.0	43.1	43.8	44.4	45.4	46.7	46.6	48.3	50.1	52.8	53.4	55.1	56.2	57.4	57.4	39.0
105	65.3	65.2	64.7	64.8	66.3	68.6	70.7	72.9	75.3	76.8	78.1	80.0	82.3	83.5	86.0	88.6	86.4	87.5	59.4
110	101	101	100	100	101	102	103	105	106	108	109	111	113	115	116	116	115	117	88.3
115	136	136	136	136	136	137	137	138	139	140	142	144	146	147	149	147	146	151	126
120	172	172	172	172	171	172	172	172	173	175	177	177	178	180	179	179	179	183	165
125	206	206	206	206	206	207	207	208	209	209	209	210	212	211	211	213	213	213	203
130	240	240	241	241	241	242	242	242	242	242	243	245	244	244	245	246	246	243	243
135	274	274	274	274	274	274	274	274	275	276	278	276	276	277	279	278	279	277	277
140	304	304	304	304	304	305	306	307	308	308	307	307	308	310	309	309	311	312	310
145	333	334	334	335	335	337	337	337	336	335	336	337	339	339	338	339	341	341	339
150	363	363	363	362	362	362	362	361	362	363	364	366	366	365	365	366	368	365	364
155	384	384	384	384	384	385	386	386	387	389	391	389	388	388	389	390	392	386	385
160	405	405	406	406	407	408	409	410	410	409	409	408	408	408	409	411	413	405	403
165	426	426	426	426	425	425	425	424	424	424	424	424	425	426	427	428	430	427	425
170	435	435	435	435	435	435	435	436	436	436	437	437	438	439	440	441	442	440	439
175	444	444	444	444	444	444	445	445	445	446	446	447	447	448	448	449	450	444	443
180	452	452	452	452	452	452	452	452	452	452	452	452	452	452	452	452	452	440	440

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2020-07-20

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
Humidity:65.0%
Test Distance:10.237m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:240.7V I:0.2000A P:46.80W PF:0.9710 Lamp Flux:4785.9x1 lm																		
NAME: DB77A-1200-45W-DO									TYPE:45W					WEIGHT:				
DIM.:									SPEC.:4000K					SERIAL No.:				
MFR.: EVERFINE									SUR.:0.055X1.199					PROTECTION ANGLE:				

Table--3

UNIT: cd

C(DEG) γ (DEG)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	1435	1435	1435	1435	1435	1435	1435	1435	1435	1435	1435	1435	1435	1435	1435	1435	1435	1435	1435
5	1424	1422	1420	1418	1416	1415	1413	1412	1412	1411	1410	1409	1408	1407	1407	1407	1407	1406	1406
10	1395	1391	1388	1385	1383	1382	1381	1380	1379	1379	1379	1379	1379	1379	1379	1378	1378	1377	1376
15	1347	1343	1340	1338	1337	1337	1338	1339	1341	1343	1344	1346	1348	1349	1350	1350	1349	1348	1347
20	1284	1279	1277	1277	1279	1282	1286	1290	1291	1287	1285	1284	1282	1281	1280	1279	1278	1277	1277
25	1208	1205	1204	1207	1212	1218	1214	1210	1209	1207	1207	1208	1208	1208	1208	1208	1206	1205	1204
30	1121	1119	1121	1127	1129	1125	1122	1122	1123	1126	1128	1131	1133	1135	1136	1136	1135	1134	1131
35	1027	1027	1032	1033	1028	1027	1029	1033	1037	1042	1042	1041	1041	1041	1040	1039	1038	1038	1036
40	928	930	934	928	927	930	935	940	938	937	938	940	941	942	942	942	941	940	938
45	825	830	825	823	826	833	831	830	831	833	836	838	841	843	844	845	844	843	842
50	722	722	717	720	724	720	721	723	726	731	733	734	735	737	737	737	736	736	734
55	617	612	612	616	611	612	614	618	619	620	622	624	626	628	628	629	628	628	627
60	509	505	509	504	503	507	506	507	508	511	514	516	518	519	520	521	520	520	519
65	399	401	397	397	397	396	397	399	401	404	406	407	409	410	411	411	411	411	410
70	295	293	292	291	290	291	292	294	295	296	298	299	299	300	301	301	301	301	302
75	194	192	189	190	190	190	191	192	192	192	192	191	191	191	191	191	191	192	193
80	95.2	95.7	95.9	98.6	96.9	94.4	93.3	100	107	112	116	120	123	126	128	129	129	130	129
85	29.3	29.2	27.4	32.0	36.6	41.3	46.5	51.5	55.2	58.0	60.5	62.6	64.2	65.5	66.3	66.6	66.7	67.1	67.2
90	2.74	2.78	2.87	2.99	3.25	3.59	3.98	4.39	4.70	5.01	5.28	5.37	5.34	5.20	4.97	4.47	4.34	4.70	5.34
95	30.8	31.3	31.1	27.7	25.3	24.2	23.7	23.5	23.9	24.9	26.1	27.5	29.3	30.8	31.2	30.5	30.9	30.9	31.3
100	45.7	47.3	47.9	46.6	45.3	44.4	43.2	42.7	43.4	45.0	47.1	49.8	53.5	56.6	57.5	56.6	57.5	57.2	57.3
105	59.9	63.0	63.9	63.6	63.4	63.5	64.3	65.2	66.8	68.9	71.3	74.7	79.7	83.5	84.1	82.7	84.0	83.6	83.8
110	81.9	81.7	82.2	83.0	84.2	85.3	87.3	89.7	93.2	96.8	101	106	114	118	118	117	117	119	119
115	114	108	107	108	109	111	114	117	122	126	132	139	150	152	153	151	150	155	155
120	155	146	139	138	139	141	144	148	152	158	164	173	184	185	187	185	183	191	190
125	200	191	181	172	172	174	177	181	185	192	202	212	216	219	220	217	216	225	224
130	248	244	227	215	210	211	216	219	226	226	242	249	246	253	254	248	249	259	258
135	279	284	271	260	255	256	260	270	262	275	281	281	282	285	287	280	282	292	292
140	310	312	312	304	300	302	311	300	312	314	314	312	316	311	311	310	309	318	320
145	339	340	342	343	342	339	335	345	345	347	345	347	341	335	337	338	337	343	349
150	364	366	369	373	373	371	368	364	365	366	369	368	363	359	365	366	365	368	375
155	385	386	387	387	386	385	384	385	385	386	385	384	382	383	384	384	384	385	389
160	401	401	400	401	402	403	403	403	403	404	405	405	405	404	403	402	402	403	404
165	423	421	420	419	419	418	419	420	422	423	424	423	423	421	421	421	421	422	421
170	438	436	436	435	434	434	434	433	432	432	431	430	429	428	428	427	427	428	427
175	443	442	441	441	440	440	439	438	437	437	436	436	435	435	434	434	434	434	433
180	440	440	440	440	440	440	440	440	440	440	440	440	440	440	440	440	440	440	440

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2020-07-20

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
Humidity:65.0%
Test Distance:10.237m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:240.7V I:0.2000A P:46.80W PF:0.9710 Lamp Flux:4785.9x1 lm																	
NAME: DB77A-1200-45W-DO									TYPE:45W						WEIGHT:		
DIM.:									SPEC.:4000K						SERIAL No.:		
MFR.: EVERFINE									SUR.:0.055X1.199						PROTECTION ANGLE:		

Table--4

UNIT: cd

C(DEG) γ (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	1435	1435	1435	1435	1435	1435	1435	1435	1435	1435	1435	1435	1435	1435	1435				
5	1405	1405	1405	1406	1406	1407	1407	1409	1410	1410	1412	1413	1415	1417	1419				
10	1376	1375	1374	1373	1372	1372	1371	1371	1371	1372	1373	1375	1377	1380	1384				
15	1345	1342	1339	1336	1333	1330	1327	1325	1323	1322	1322	1323	1325	1329	1334				
20	1276	1275	1276	1276	1277	1278	1277	1271	1266	1261	1259	1257	1258	1261	1266				
25	1202	1201	1198	1196	1195	1195	1195	1197	1201	1192	1186	1182	1181	1183	1188				
30	1128	1125	1120	1116	1112	1108	1106	1105	1106	1110	1107	1100	1096	1096	1100				
35	1034	1032	1031	1029	1028	1022	1016	1012	1010	1010	1014	1013	1005	1003	1006				
40	936	933	931	928	926	924	924	919	913	910	911	917	912	906	908				
45	839	836	832	828	824	820	818	817	818	812	809	811	816	808	807				
50	733	731	729	727	724	719	715	711	710	713	708	707	711	709	706				
55	625	623	621	618	616	615	614	610	606	605	608	605	605	611	604				
60	518	516	514	511	508	507	505	505	506	502	501	505	502	507	503				
65	410	408	407	405	404	402	400	399	398	400	399	399	402	401	401				
70	302	301	301	301	300	299	298	297	297	296	298	299	299	299	302				
75	194	195	196	197	198	199	199	200	200	200	200	201	203	203	204				
80	128	127	124	121	118	114	110	107	110	112	113	113	114	115	115				
85	66.9	66.0	64.6	62.9	61.0	58.9	56.7	54.2	51.6	48.7	45.6	42.0	43.5	44.0	44.7				
90	5.60	5.59	5.26	4.81	4.63	4.58	4.59	4.68	4.87	5.05	5.31	5.62	5.82	6.02	6.32				
95	31.3	31.1	30.8	30.3	30.1	30.0	30.2	30.7	31.5	32.6	34.2	36.5	34.3	35.4	37.6				
100	57.1	56.7	56.3	55.8	55.6	55.5	55.9	56.9	58.4	59.4	60.1	60.3	60.7	61.7	61.9				
105	83.8	84.0	84.3	84.6	85.3	85.8	86.5	87.0	87.3	87.1	87.4	88.0	88.7	88.4	89.4				
110	119	119	119	119	119	119	119	119	119	119	119	120	119	119	120				
115	155	154	154	154	153	153	152	152	152	153	153	152	152	152	152				
120	190	189	189	188	188	187	187	187	188	186	185	186	185	186	184				
125	224	224	223	222	222	222	223	221	220	219	220	218	218	219	216				
130	258	258	258	257	257	255	254	253	252	253	252	250	251	250	249				
135	291	290	289	288	287	286	286	286	286	284	282	282	284	281	280				
140	320	319	319	318	317	317	318	316	314	313	313	314	312	310	310				
145	349	348	348	348	348	346	344	343	342	342	343	342	340	339	339				
150	375	374	373	372	371	370	369	369	369	370	369	367	365	365	365				
155	391	391	392	393	393	394	394	394	396	392	389	387	386	386	387				
160	406	406	407	410	412	415	415	413	410	408	406	404	403	403	403				
165	420	420	419	420	420	421	421	421	421	420	420	419	419	418	418				
170	427	427	426	427	427	427	427	428	428	428	429	429	430	430	431				
175	433	433	433	433	433	433	434	434	434	434	435	435	436	436	437				
180	440	440	440	440	440	440	440	440	440	440	440	440	440	440	440				

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2020-07-20

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:10.237m [K=1.0000]
 Remarks: